T. Jeffrey Cole

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Education

□ Ph.D. in Biological Sciences

expected May 2021

East Carolina University, Greenville NC

- Dissertation title: Molecular evolution of venom proteins in Ctenidae spiders

□ B.S. in Biology, magna cum laude

May 2016

Samford University, Birmingham AL

- **GPA:** 3.88
- Honors
 - ♦ Beta Beta Beta National Biology Honors Society (2013-2015)
 - · Vice President(2015)
 - ♦ Alpha Lambda Delta Honors Society (2013-2015)

Publications

Cole TJ, Brewer MS. (in prep). toxify: a deep learning approach for classifying animal venom proteins.

Cole TJ, Brewer MS. (2018) FUSTr: A tool for finding gene Families Under Selection in Transcriptome databases. *PeerJ*, 6, e4234.

Cole TJ, Hataway RA. (2016). Prescribed burning affects a measure of fitness in Ctenus hibernalis (Araneae: Ctenidae) at Oak Mountain State Park, Shelby County, Alabama. *Southeastern Naturalist*. 15(4):646–652.

Presentations

□ Comparative venom gland transcriptomics of the U.S Ctenidae (Order:Araneae)

2018

Oral presentation

- 42nd annual meeting of the American Arachnological society, Ypsilanti MI.

□ Using deep learning to classify animal venom proteins

2018

Oral presentation

 79th annual meeting of the Association for Southeastern Biologists conference, Myrtle Beach, SC.

 □ Signatures of positive selection in venom proteins of Hawaiian Tetragnatha (Araneae:Tetragnathidae)

2017

Poster presentation

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- 35th annual Society for Molecular Biology and Evolution, Austin, TX **□** Characterization of the venom proteome for the wandering spider Ctenus hibernalis (Araneae: Ctenidae) 2016 Oral presentation - Venom Week V, Greenville NC Poster presentation - 93rd annual Meeting of the Alabama Academy of Science, Florence AL Winner of Best Poster in Biological Sciences Award - 77th annual meeting of the Association for Southeastern Biologists conference, Concord NC - 20th annual meeting of the International Congress of Arachnology, Golden CO 2015 Oral presentation - Samford University Summer Research Symposium Poster presentation - University of Kansas Summer Undergraduate Research Poster Session - 5th annual Emerging Researchers National STEM Conference, Washington D.C. **□** Density and fitness of Ctenus hibernalis (Aranea: Ctenidae) in a montane longleaf pine ecosystem undergoing restoration 2015 Oral presentation - Samford University Summer Research Symposium Poster presentation - 92nd annual Meeting of the Alabama Academy of Science, Livingston, AL - 4th annual Emerging Researchers National STEM Conference, Washington D.C. ☐ Effects of surface runoff from a landfill containing coal ash on water chemistry in adjacent surface water in Perry County, Alabama 2014 Oral presentation - Perry County City Hall meeting - Samford University Summer Research Symposium Poster presentation - 75th annual Association for Southeastern Biologists conference, Spartanburg SC Winner of Elsie Quarterman-Catherine Keever Poster Award **Society Memberships** American Arachnological Society

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American Chemical Society

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2015-present

Awards & Grants	
American Museum of Natural History Theodore Roosevelt Memorial Grant (\$1,000)	201
East Carolina University biodiversity initiative internal grant for outreach (\$200)	201
NSF Graduate Research Fellowship (\$132,000)	201
Brakefield Textbook scholarship (\$100)	201
NSF REU Summer research grant, University of Kansas (\$5,500)	201
SF REU Summer research grant, Samford University (\$5,500)	201
Samford University Summer Propst Research scholar (\$2,000)	201
Service & Outreach	
□ Bugfest	2016-preser
 Annual public showcase of local arthropod diversity at the Museum of Natural F 	listory, Raleigh No
□ Undergraduate student mentor	2016-prese
 research project coordinator for 5 undergraduate research projects 	
□ Letters to a Pre-Scientist.	201
 Mentoring network for middle school students in at-risk communities to encoura scientific careers 	ge their pursuit of
□ Spiders of Birmingham, AL	201
 Bi-annual community seminar on how to collect and identify local spiders 	
	201
 Guest lecture at 4H chapter in Birmingham 	
	2013-201
 Co-organizer for annual cleanup efforts in Birmingham AL 	
□ Samford gives back	2013-201
 Annual event to provide assistance with establishing community gardens 	
Skills	

- **Expert:** Python, Go, Bash, R

- Intermediate: Java, C++, Haskel, HTML, CSS, Javascript, LATEX

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